Problem statement

Identify cricket shots using computer vision and machine learning techniques.

Abstract

Numerous sports have attracted a lot of interest and popularity recently. The absence of any sporting activities throughout the height of the current outbreak had caused a sizable number of people to crave to see some game being played. In India, cricket is undoubtedly the most well-liked sport, with millions of fans who passionately follow the matches. As a result of their intense interest in the game, fans analyse each player's skills in detail, especially their shot selection. The popularity of fantasy leagues and other services of a similar nature has increased interest in assessing players so that they might be chosen for their teams. The manual process for identifying batter shots is one of the most time-consuming. and time-consuming procedures. Cricket shot detection is a game-changing technology that offers deep insights into player performance and match data, completely changing the way the sport is played. The main elements and importance of cricket shot detection systems are explored in this abstract. Using computer vision and machine learning techniques, the system examines video footage of cricket matches to accurately detect and classify every shot made by batsmen. Shot types (such as cover drive, pull, or leg glance), shot trajectories, and success rates are among the important data it retrieves. Numerous stakeholders in the cricketing ecosystem find diverse uses for cricket shot detection. Shot detection provides compelling visualizations and real□time shot labels in the broadcasting domain, enhancing the viewing experience. Technology keeps improving the game, empowering players, and enthralling spectators with a deeper comprehension of the sport. Several sports have received a lot of attention and popularity recently. Many people were pining for live sports action during the height of the recent outbreak because there were no sporting activities. With millions of devoted fans who watch the games with emotion, cricket is one of the most respected sports in India. Enticed by the game, fans frequently conduct in-depth evaluations of certain players, focusing on their skills and shot choices. A greater number of people are interested in assessing players' performances to make wise choices for fantasy teams, especially considering the popularity of fantasy leagues and related services. Automation presents a potential solution to the significantly time-consuming and manual process of detecting cricket batters' shots. To accomplish its goals, this study uses deep learning in the form of Convolutional Neural Networks (CNNs) to present an efficient method for evaluating cricket strokes.